

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21-89 are rejected under 35 U.S.C. 102(b) as being anticipated by LaJoie et al (5,850,218) hereinafter referred to as LaJoie.

Regarding claim 21, LaJoie discloses an interactive program guide with default selection control which reads on “A method of accessing a video and/or audio program among video and/or audio programs stored in a video and/or audio recording/reproducing apparatus, the method comprising: receiving a request signal to access the video and/or audio program among the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; displaying a program list comprising information regarding the video and/or audio programs and an image corresponding to one of the video and/or audio programs; and accessing the video and/or audio program based on a selection made in a display screen displaying the program list” in addition LaJoie discloses a full service television systems which utilizes advanced storage, communications, and processing techniques to provide a variety of television services including television programming, music programming, advanced navigation controls, interactive program guides, Impulse Pay-Per-View activation, Near-Video-On-Demand programming, Video-On-Demand programming, advanced

configuration controls, and online services which reads on "A method of accessing a video and/or audio program among video and/or audio programs stored in a video and/or audio recording/reproducing apparatus, the method comprising: receiving a request signal to access the video and/or audio program among the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; displaying a program list comprising information regarding the video and/or audio programs and an image corresponding to one of the video and/or audio programs; and accessing the video and/or audio program based on a selection made in a display screen displaying the program list" (column 1, lines 1-7).

Regarding claim 22, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a program viewing window (figure 16, item 340) displays a reduced size display of the normal television display so that the program being viewed prior to entering the program guide may continue to be viewed while in the guide, which reads on "the method, wherein the image corresponding to one of the video and/or audio programs is a still image" (column 23, lines 55-58).

Regarding claim 23, LaJoie discloses everything as above (see claim 22), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the still image is an image extracted from a predetermined part of the corresponding video and/or audio program" (column 10, lines 28-30).

Regarding claim 24, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a One-Touch Recording feature of the present invention

which automatically warns the user if an attempt is made to record an Pay-Per-View program without having previously made arrangements to purchase the program, which reads on "the method, wherein the displaying of the program list comprises displaying a list of one or more of title information, recording date information and reproducing time information of the video and/or audio programs, and the image corresponding to the one of the video and/or audio programs" (column 29, lines 32-35 and figures 24, and 25).

Regarding claim 25, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a program viewing window displays a reduced size display of the normal television display so that the program being viewed prior to entering the program guide may continue to be viewed while in the guide, which also includes date and time information, which reads on "the method, wherein the displaying of the program list comprises displaying a list of the video and/or audio programs and images corresponding to the respective video and/or audio programs of the list" (column 23, lines 55-58).

Regarding claim 26, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a program guide which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the displaying of the program list comprises displaying the information regarding the video and/or audio programs in a predetermined order and images corresponding to the respective video and/or audio programs" (figure 21).

Regarding claim 27, LaJoie discloses everything as above (see claim 26), in addition LaJoie discloses a program guide which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the information regarding the video and/or audio programs comprises one or more of title information, recording date information, and reproducing time information of each of the video and/or audio programs" (figure 21).

Regarding claim 28, LaJoie discloses everything as above (see claim 27), in addition LaJoie discloses a program guide which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the images are displayed according to the predetermined order of the information" (figure 21).

Regarding claim 29, LaJoie discloses everything as above (see claim 28), in addition LaJoie discloses a program guide which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the information regarding the video and/or audio programs comprises the recording date information of each of the video and/or audio programs, and the recording date information are displayed from the earliest recording date to the latest recording date" (figure 21).

Regarding claim 30, LaJoie discloses everything as above (see claim 27), in addition LaJoie discloses a channel settings controls which enable the cable subscriber to fully configure the set-top terminal to operate as desired. For example, the

Art Unit: 4115

subscriber may: assign channels to a favorite channel list, which reads on “the method, further comprising: receiving a request signal to edit the information corresponding to respective one of the video and/or audio programs; and displaying a user input screen to facilitate the editing of the information corresponding to the respective one of the video and/or audio programs” (column 6, lines 4-7).

Regarding claim 31, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a central processing unit fully embedded in the set-top terminal to control its operation including serving as storage means, which reads on “the method, wherein the video and/or audio recording/reproducing apparatus is a combo-device comprising a storage device, a recording/reproducing unit to record/reproduce a video and/or audio program with respect to the storage device, and an optical disc recording and/or reproducing unit to record and/or reproduce a video and/or audio program with respect to a disc” (column 13, lines 21-22).

Regarding claim 32, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a plant which supplies signals to the headned which in turn supplies the subscriber set-top terminal with audio video content, which reads on “the method, wherein the video and/or audio recording/reproducing apparatus is provided to receive a video and/or audio program from a plurality of video and/or audio program sources” (column 13, lines 65-66 and column14, line 1).

Regarding claim 33, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a CPU embedded in set-top terminal containing storage means, which reads on “the method, wherein the video and/or audio programs are

stored in a storage device associated with the video recording/reproducing apparatus" (column 13, lines 21-22).

Regarding claim 34, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a remote control in figure 3 and external device to control the set-top terminal, which reads on "the method, wherein the receiving of the request signal comprises receiving the request signal from an external input device" (figure 3).

Regarding claim 35, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus are data compressed according to a predetermined compression format" (column 10, lines 28-30).

Regarding claim 36, LaJoie discloses everything as above (see claim 21), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the predetermined compression format is an MPEG compression format" (column 10, lines 28-30).

Regarding claim 37, LaJoie discloses an interactive program guide with default selection control which reads on "a method of displaying information regarding video and/or audio programs stored in a video recording/reproducing apparatus, the method comprising: receiving a request signal to display the information regarding the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; and displaying the information comprising: one or more of title information, recording date information and reproducing time information of the video and/or audio

programs, and an image corresponding to one of the video and/or audio programs" in addition LaJoie discloses an interactive program guide stored on subscriber set-top terminal (figure 3, item 6) including a remote control device (figure 3, item 59) used as an external input device to navigate the program guide which includes video listings, date and time information about video recordings as shown on the user interface (figure 21, item 420), which reads on "a method of displaying information regarding video and/or audio programs stored in a video recording/reproducing apparatus, the method comprising: receiving a request signal to display the information regarding the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; and displaying the information comprising: one or more of title information, recording date information and reproducing time information of the video and/or audio programs, and an image corresponding to one of the video and/or audio programs" (figures 3, 21).

Regarding claim 38, LaJoie discloses everything as above (see claim 37), in addition LaJoie discloses an interactive program guide (figure 21, item 420) stored in a set-top box (figure 3 item 6) and displayed on television, which reads on "the method, wherein the displaying of the information comprises outputting a signal corresponding to the information by the video recording/reproducing apparatus to display the information on a display screen" (figures 3, 21).

Regarding claim 39, LaJoie discloses everything as above (see claim 38), in addition LaJoie discloses an interactive program guide (420) stored in a set-top box and displayed on television based on user selection, which reads on "the method, wherein

the information is displayed so as to allow access to a video and/or audio program amongst the video and/or audio programs based on a selection made in the display screen" (figures 21).

Regarding claim 40, LaJoie discloses everything as above (see claim 37), in addition LaJoie discloses a program guide which displays a list of programs or video including time and information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the displaying of the information comprises displaying one or more of the title information, recording date information and reproducing time information of each of the video and/or audio programs, and images corresponding to the respective video and/or audio programs" (figure 21).

Regarding claim 41, LaJoie discloses everything as above (see claim 37), in addition LaJoie discloses an interactive program guide (figure 21, item 420) stored in a set-top box (FIGURE 3, item 6) and displayed on television and a remote control to select or edit the program guide, which reads on "the method, further comprising: receiving a request signal to edit the information corresponding to one of the video and/or audio programs; and displaying a user input screen to facilitate the editing of the information corresponding to the one of the video and/or audio programs" (figures 3, 21).

Regarding claim 42, LaJoie discloses everything as above (see claim 37), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the image corresponding to one of the video and/or audio programs is one of a still image and a motion image" (column 10,

lines 28-30). Note a moving image is equivalent to a still image because when a moving image is paused a still image results.

Regarding claim 43, LaJoie discloses everything as above (see claim 37), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus are data compressed according to an MPEG compression format" (column 10, lines 28-30).

Regarding claim 44, LaJoie discloses everything as above (see claim 43), in addition LaJoie discloses a set-top terminal (6) with CPU (30) and digital recording capability, which reads on "the method, further comprising: receiving a request signal to display a menu to access a plurality of major functions pertaining to the video recording/reproducing apparatus; and displaying the menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figure 3).

Regarding claim 45, LaJoie discloses everything as above (see claim 44), in addition LaJoie discloses a menu (190) and sub menu (204), which reads on "the method, further comprising: receiving a request signal to display a menu to access a plurality of major functions pertaining to the video recording/reproducing apparatus; and displaying the menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figure 9).

Regarding claim 46, LaJoie discloses everything as above (see claim 45), in addition LaJoie discloses a CPU in a set-top terminal comprising hard disc drive “the method, wherein the video and/or audio programs are stored in a hard disc drive of the video and/or audio recording/reproducing apparatus” (figure 3).

Regarding claim 47, LaJoie discloses an interactive program guide with default selection control which reads on “a method of displaying information regarding video and/or audio programs stored in a video recording/reproducing apparatus, the method comprising: receiving a request signal to display the information regarding the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; and displaying the information comprising: images corresponding to the respective video and/or audio programs, and one or more of title information, recording date information and reproducing time information of one of the video and/or audio programs” in addition LaJoie discloses an interactive program guide stored on subscriber set-top terminal (figure 3, item 6) including a remote control device used as an external input device to navigate the program guide (figure 21, item 420) which includes video listings, date and time information about video recordings, which reads on “a method of displaying information regarding video and/or audio programs stored in a video recording/reproducing apparatus, the method comprising: receiving a request signal to display the information regarding the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus; and displaying the information comprising: images corresponding to the respective video and/or audio programs, and

one or more of title information, recording date information and reproducing time information of one of the video and/or audio programs" (figures 3, 21).

Regarding claim 48, LaJoie discloses everything as above (see claim 47), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the method, wherein the video and/or audio programs stored in the video and/or audio recording/reproducing apparatus are data compressed according to an MPEG compression format" (column 10, lines 28-30).

Regarding claim 49, LaJoie discloses everything as above (see claim 48), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9, which reads on "the method, further comprising: receiving a request signal to display a menu to access a plurality of major functions pertaining to the video recording/reproducing apparatus; and displaying the menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figure 9).

Regarding claim 50, LaJoie discloses everything as above (see claim 49), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9, which reads on "the method, wherein the request signal to display the information regarding video and/or audio programs corresponds to a selection of the digital recorder submenu" (figure 9).

Regarding claim 51, LaJoie discloses everything as above (see claim 50), in addition LaJoie discloses a CPU (30) comprising hard disc drive embedded in a set-top

terminal (6) "the method, wherein the video and/or audio programs are stored in a hard disc drive of the video and/or audio recording/reproducing apparatus" (figure 3).

Regarding claim 52, LaJoie discloses everything as above (see claim 47), in addition LaJoie discloses a program guide (420) which displays a list of programs or video including time and information, theme and images of videos on current channel or selected channel, which reads on "the method, wherein the displaying of the information comprises displaying the one or more of title information, recording date information and reproducing time information of the one of the video and/or audio programs in response to a selection of a corresponding one of the images being displayed" (figure 21).

Regarding claim 53, LaJoie discloses an interactive program guide with default selection control which reads on "an apparatus for accessing a video and/or audio program amongst the video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving an input signal to access the video and/or audio program among video and/or audio programs stored in the storage device; and a main control unit for providing a program list comprising information regarding the video and/or audio programs and an image corresponding to one of the video and/or audio programs, and accessing the video and/or audio program based on a selection made in a display screen displaying the program list" in addition LaJoie discloses a full service television systems which utilizes advanced storage, communications, and processing techniques to provide a variety of television services including television programming, music programming, advanced navigation controls, interactive program guides, Impulse Pay-Per-View activation, Near-Video-On-Demand programming, Video-

On-Demand programming, advanced configuration controls, and online services which reads on “an apparatus for accessing a video and/or audio program amongst the video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving an input signal to access the video and/or audio program among video and/or audio programs stored in the storage device; and a main control unit for providing a program list comprising information regarding the video and/or audio programs and an image corresponding to one of the video and/or audio programs, and accessing the video and/or audio program based on a selection made in a display screen displaying the program list” (column 1, lines 1-7).

Regarding claim 54, LaJoie discloses everything as above (see claim 53), in addition LaJoie discloses a program viewing window (figure 16, item 340) displays a reduced size display of the normal television display so that the program being viewed prior to entering the program guide may continue to be viewed while in the guide, which reads on “the apparatus, wherein the image corresponding to one of the video and/or audio programs is a still image” (column 23, lines 55-58).

Regarding claim 55, LaJoie discloses everything as above (see claim 54), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on “the apparatus, wherein the still image is an image extracted from a predetermined part of the corresponding video and/or audio program” (column 10, lines 28-30).

Regarding claim 56, LaJoie discloses everything as above (see claim 53), in addition LaJoie discloses a One-Touch Recording feature of the present invention

which automatically warns the user if an attempt is made to record an Pay-Per-View program without having previously made arrangements to purchase the program, which reads on "the apparatus, wherein the program list comprises a list of one or more of title information, recording date information and reproducing time information of the video and/or audio programs, and the image corresponding to the one of the video and/or audio programs" (column 29, lines 32-35 and figures 24, and 25).

Regarding claim 57, LaJoie discloses everything as above (see claim 53), in addition LaJoie discloses a program guide which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the apparatus, wherein the program list comprises the information regarding the video and/or audio programs in a predetermined order and images corresponding to the respective video and/or audio programs" (figure 21).

Regarding claim 58, LaJoie discloses everything as above (see claim 57), in addition LaJoie discloses a program guide (420) which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the apparatus, wherein the information regarding the video and/or audio programs comprises one or more of title information, recording date information, and reproducing time information of each of the video and/or audio programs" (figure 21).

Regarding claim 59, LaJoie discloses everything as above (see claim 58), in addition LaJoie discloses a program guide (420) which displays a list of programs or video including time information, theme and images of videos on current channel or

selected channel, which reads on "the apparatus, wherein the images are displayed according to the predetermined order of the information" (figure 21).

Regarding claim 60, LaJoie discloses everything as above (see claim 59), in addition LaJoie discloses a program guide (420) which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel, which reads on "the apparatus wherein the information regarding the video and/or audio programs comprises the recording date information of each of the video and/or audio programs, and the recording date information are displayed from the earliest recording date to the latest recording date" (figure 21).

Regarding claim 61, LaJoie discloses everything as above (see claim 58), in addition LaJoie discloses a channel settings controls which enable the cable subscriber to fully configure the set-top terminal to operate as desired. For example, the subscriber may: assign channels to a favorite channel list, which reads on "the apparatus, wherein: the interface unit further receives a request signal to edit the information corresponding to respective one of the video and/or audio programs; and the main control unit further provides a user input screen to facilitate the editing of the information corresponding to the respective one of the video and/or audio programs" (column 6, lines 4-7).

Regarding claim 62, LaJoie discloses everything as above (see claim 53), in addition LaJoie discloses a central processing unit fully embedded in the set-top terminal to control its operation including serving as storage means, which reads on "a video recording/reproducing apparatus comprising the apparatus according to claim

53, further comprising the storage device to store the video and/or audio programs" (column 13, lines 21-22).

Regarding claim 63, LaJoie discloses everything as above (see claim 62), in addition LaJoie discloses a central processing unit fully embedded in the set-top terminal to control its operation including serving as storage means, which reads on "the video recording/reproducing apparatus, wherein the video and/or audio recording/reproducing apparatus is a combo-device further comprising a recording/reproducing unit to record/reproduce a video and/or audio program with respect to the storage device, and an optical disc recording and/or reproducing unit to record and/or reproduce a video and/or audio program with respect to a disc" (column 13, lines 21-22).

Regarding claim 64, LaJoie discloses everything as above (see claim 62), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the video recording/reproducing apparatus of claim 62, wherein the video and/or audio programs stored in the storage device are data compressed according to a predetermined compression format" (column 10, lines 28-30).

Regarding claim 65, LaJoie discloses everything as above (see claim 64), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on "the video recording/reproducing apparatus of claim 64, wherein the predetermined compression format is an MPEG compression format" (column 10, lines 28-30).

Regarding claim 66, LaJoie discloses everything as above (see claim 62), in addition LaJoie discloses a plant which supplies signals to the headend which in turn supplies the subscriber set-top terminal with audio video content, which reads on "the video recording/reproducing apparatus of claim 62, further comprising an input/output terminal unit for receiving a video and/or audio program from a plurality of video and/or audio program sources" (column 13, lines 65-66 and column 14, line 1).

Regarding claim 67, LaJoie discloses everything as above (see claim 66), in addition LaJoie discloses a tuner receiving input from a fiber coaxial plant outputting into a decoder, which reads on "the video recording/reproducing apparatus of claim 66, further comprising: a tuner for adjusting a receiving channel in order for a broadcast signal to be received through the input/output terminal unit" (figure 3), in addition LaJoie discloses a CPU (30) which controls the operation of the set-top box (6) including switching the CPU (30) also controls the operation of the decoder (38), which reads on "a switching unit for selectively and mutually connecting input/output terminals of the input/output terminal unit connected to the switching unit; an input/output control unit for controlling the tuner and the switching unit; a video decoder for decoding and outputting a video signal received through one of the input/output terminal unit and the switching unit" (figure 3), further LaJoie discloses an A/D converter (34) connected to the decoder via a security bus (36), which reads on "an audio A/D converter for digitizing an analog audio signal which is selected via the switching unit; an encoder for encoding the analog audio signal from the audio A/D converter and Video signal from the video decoder according to a predetermined compression format, and storing the

encoded data in the storage device; a data management unit for managing data with respect to the storage device; an audio D/A converter for converting a digital audio signal output from a decoder into an analog audio signal and outputting the converted signal to the switching unit; and a video encoder for encoding a video signal output from the decoder and outputting the encoded video signal to the switching unit" (figure 3).

Regarding claim 68, LaJoie discloses everything as above (see claim 62), in addition LaJoie discloses a menu (190) and sub menu (204), which reads on the video recording/reproducing apparatus of claim 62, wherein: the interface unit further receives a menu request signal to access a plurality of major functions pertaining to the video recording/reproducing apparatus, and the main control unit further provides a menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figure 9).

Regarding claim 69, LaJoie discloses an interactive program guide with default selection control which reads on "an apparatus for displaying information regarding video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving a request signal to display the information regarding the video and/or audio programs stored in the storage device; and a main control unit for providing information comprising: one or more of title information, recording date information and reproducing time information of the video and/or audio programs, and an image corresponding to one of the video and/or audio programs" in addition LaJoie

discloses a program guide (420) which displays a list of programs or video including time information, theme and images of videos on current channel or selected channel which reads on "an apparatus for displaying information regarding video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving a request signal to display the information regarding the video and/or audio programs stored in the storage device; and a main control unit for providing information comprising: one or more of title information, recording date information and reproducing time information of the video and/or audio programs, and an image corresponding to one of the video and/or audio programs" (figure 21).

Regarding claim 70, LaJoie discloses everything as above (see claim 69), in addition LaJoie discloses a user interface of an interactive program guide (figure 21, item 420) stored on a subscriber set-top terminal (figure 3, item 6) and is displayed on television, which reads on "the apparatus, wherein the main control unit outputs a signal corresponding to the information to display the information on a display screen" (figures 3, 21).

Regarding claim 71, LaJoie discloses everything as above (see claim 70), in addition LaJoie discloses a user interface of an interactive program guide stored on a subscriber set-top terminal and is displayed on television based on subscriber selection, which reads on "the apparatus; wherein the information is displayed so as to allow access to a video and/or audio program amongst the video and/or audio programs based on a selection made in the display screen" (figures 3, 21).

Regarding claim 72, LaJoie discloses everything as above (see claim 69), in addition LaJoie discloses a user interface of an interactive program guide stored on a subscriber set-top terminal displays video tile information including date and time of recorded event on the user interface (420), which reads on “the apparatus, wherein the information comprises one or more of the title information, recording date information and reproducing time information of each of the video and/or audio programs, and images corresponding to the respective video and/or audio programs” (figure 21).

Regarding claim 73, LaJoie discloses everything as above (see claim 69), in addition LaJoie discloses a user interface of an interactive program guide that displays video information and allows for user to edit video information stored on a subscriber set-top terminal including a remote control, which reads on “the apparatus, wherein: the interface unit further receives a request signal to edit the information corresponding to one of the video and/or audio programs; and the main control unit further provides a user input screen to facilitate the editing of the information corresponding to the one of the video and/or audio programs” (figures 3, 21).

Regarding claim 74, LaJoie discloses everything as above (see claim 69), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded still image, which reads on “the apparatus, wherein the image corresponding to one of the video and/or audio programs is one of a still image and a motion image” (column 10, lines 28-30). Note a moving image is equivalent to a still image because when a moving image is paused a still image results.

Regarding claim 75, LaJoie discloses everything as above (see claim 69), in addition LaJoie discloses a CPU embedded in set-top terminal containing storage means, which reads on "a video recording/reproducing apparatus comprising the apparatus according to claim 69, further comprising the storage device to store the video and/or audio programs" (column 13, lines 21-22).

Regarding claim 76, LaJoie discloses everything as above (see claim 75), in addition LaJoie discloses a central processing unit fully embedded in the set-top terminal to control its operation including serving as storage means, which reads on "the video recording/reproducing apparatus, wherein the video and/or audio recording/reproducing apparatus is a combo-device further comprising a recording/reproducing unit to record/reproduce a video and/or audio program with respect to the storage device, and an optical disc recording and/or reproducing unit to record and/or reproduce a video and/or audio program with respect to a disc" (column 13, lines 21-22).

Regarding claim 77, LaJoie discloses everything as above (see claim 75), in addition LaJoie discloses a contents of a media server such as MPEG-2 encoded images, which reads on "the video recording/reproducing apparatus of claim 75, wherein the video and/or audio programs stored in the storage device are data compressed according to an MPEG compression format" (column 10, lines 28-30).

Regarding claim 78, LaJoie discloses everything as above (see claim 75), in addition LaJoie discloses a plant which supplies signals to the headend which in turn supplies the subscriber set-top terminal with audio video content, which reads on "the

video recording/reproducing apparatus of claim 75, further comprising an input/output terminal unit for receiving a video and/or audio program from a plurality of video and/or audio program sources" (column 13, lines 65-66 and column 14, line 1).

Regarding claim 79, LaJoie discloses everything as above (see claim 78), in addition LaJoie discloses an interactive program guide stored in a set-top box including a CPU as a control unit which further includes a hard disk drive, which reads on "the video recording/reproducing apparatus of claim 78, wherein the storage device is a hard disc drive" (figures 3).

Regarding claim 80, LaJoie discloses everything as above (see claim 79), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9 the interactive program guide is stored on the set-top terminal which also has a CPU as control unit, which reads on "the video recording/reproducing apparatus of claim 79, wherein: the interface unit further receives a request signal to display a menu to access a plurality of major functions pertaining to the video recording/reproducing apparatus, and the main control unit further provides the menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figures 3, 9, 21).

Regarding claim 81, LaJoie discloses everything as above (see claim 80), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9, which reads on "the video recording/reproducing apparatus of claim 80, wherein the request signal to display the information regarding video and/or audio programs corresponds to a selection of the digital recorder submenu" (figure 9).

Regarding claim 82, LaJoie discloses an interactive program guide with default selection control which reads on "an apparatus for displaying information regarding video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving a request signal to display the information regarding the video and/or audio programs stored in the storage device; and a main control unit for providing information comprising: images corresponding to the respective video and/or audio programs, and one or more of title information, recording date information and reproducing time information of one of the video and/or audio programs" in addition LaJoie discloses a user interface of an interactive program guide that displays video information and allows for user to edit video information stored on a subscriber set-top terminal including a remote control and a CPU as control unit as well as storage unit, which reads on "an apparatus for displaying information regarding video and/or audio programs stored in a storage device, the apparatus comprising: an interface unit for receiving a request signal to display the information regarding the video and/or audio programs stored in the storage device; and a main control unit for providing information comprising: images corresponding to the respective video and/or audio programs, and one or more of title information, recording date information and reproducing time information of one of the video and/or audio programs" (figures 3, 21).

Regarding claim 83, LaJoie discloses everything as above (see claim 82), in addition LaJoie discloses a set-top box including an MPEG-2 decoder, a CPU as a control unit which further includes a hard disk drive, which reads on "the apparatus of

claim 82, wherein the video and/or audio programs stored in the storage device are data compressed according to MPEG compression format" (figures 3).

Regarding claim 84, LaJoie discloses everything as above (see claim 82), in addition LaJoie discloses an interactive program guide stored in a set-top box including a CPU as a control unit, a remote control for inputting user requests, and a memory management unit comprising memory, which reads on "a video recording/reproducing apparatus comprising the apparatus according to claim 82, further comprising the storage device to store the video and/or audio programs" (figures 3).

Regarding claim 85, LaJoie discloses everything as above (see claim 84), in addition LaJoie discloses a user interface with menu (109) and submenu (204) panes as shown in figure 9 as part of an interactive program guide stored in a set-top box (6) including a CPU (30) as a control unit which further includes a hard disk drive, which reads on "the video recording/reproducing apparatus of claim 84, wherein: the interface unit further receives a menu request signal to access a plurality of major functions pertaining to the video recording/reproducing apparatus; and the main control unit further provides the menu comprising one or more of digital recorder, juke box player, and photo album submenus corresponding to the respective functions of the video recording/reproducing apparatus" (figures 3, 9).

Regarding claim 86, LaJoie discloses everything as above (see claim 85), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9 the interactive program guide is stored on the set-top terminal which also has a CPU as control unit where in request by remote control made by subscriber is fulfilled based on subscriber

selection of video or recorded content, which reads on "the video recording/reproducing apparatus of claim 85, wherein the request signal to display the information regarding video and/or audio programs corresponds to a selection of the digital recorder submenu" (figures 3, 9, 21).

Regarding claim 87, LaJoie discloses everything as above (see claim 86), in addition LaJoie discloses an interactive program guide stored in a set-top box (6) including a remote CPU (30) as a control unit which further includes a hard disk drive, which reads on "the video recording/reproducing apparatus of 86, wherein the storage device is a hard disc drive" (figures 3).

Regarding claim 88, LaJoie discloses everything as above (see claim 87), in addition LaJoie discloses an interactive program guide stored in a set-top box (6) including a remote CPU (30) wherein the tuner is connected to hybrid fiber coax plant (5) representing signal sources, which reads on "the video recording/reproducing apparatus of claim 87, further comprising an input/output terminal unit for receiving a video and/or audio program from a plurality of video and/or audio program sources" (figures 3).

Regarding claim 89, LaJoie discloses everything as above (see claim 84), in addition LaJoie discloses a menu (190) and sub menu (204) in figure 9 the interactive program guide is stored on the set-top terminal which also has a CPU as control unit wherein the programs are displayed based on user selection of programs on the program guide, which reads on "the video recording/reproducing apparatus of claim 84, wherein the information comprising the one or more of title information, recording date

Art Unit: 4115

information and reproducing time information of the one of the video and/or audio programs is displayed in response to a selection of a corresponding one of the images being displayed" (figures 3, 9, 21).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY BANTAMOI whose telephone number is (571)270-3581. The examiner can normally be reached on MON.-FRI..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey Harold can be reached on 571 272 7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 4115

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